

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov



Staff Workshop
West Coast Regional Carbon Sequestration
Partnership (WESTCARB)
Assessment of Natural Gas Combined Cycle (NGCC)
Plants with CO₂ Capture and Storage

The California Energy Commission will conduct a workshop to provide an overview and seek input on a proposed Request for Proposals (RFP) to assess the suitability of California utility-scale (nominally 250 - 600+ Megawatt) natural gas combined cycle (NGCC) power plants for carbon capture and sequestration (CCS) retrofit and/or new NGCC + CCS applications. A secondary area of research may be CCS retrofit to oilfield natural gas-fired cogeneration/steamflood units, if oilfield operators are interested in using captured CO₂ for enhanced oil recovery tests or operations. The workshop will be held:

THURSDAY, JANUARY 14, 2010

1 p.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Hearing Room A

Sacramento, California

(Wheelchair Accessible)

Remote Attendance

Web Conferencing - Presentations and audio from the meeting will be broadcast via our WebEx web conferencing system. For details on how to participate via WebEx, please see the "Participation through WebEx" section at the end of this notice.

Purpose

This workshop will provide potential applicants and other interested parties with an overview of the proposed RFP, respond to questions, and seek input on four major Phase I tasks, which include:

- A preliminary assessment and selection of candidate CO₂ capture technologies suitable for application on an NGCC or cogeneration unit.

- Development and application of a screening methodology to determine the viable candidates for CCS retrofit among NGCC and cogeneration units in PG&E's service territory.
- Preliminary site assessment and engineering design for CO₂ capture retrofit at an NGCC unit in PG&E's service territory, including engineering-economic "case studies" for several candidate capture technologies.
- Development of a preliminary scope, cost, and schedule estimate for a pilot-scale (nominally 15–50 Megawatts) technology validation test of an NGCC or cogeneration with CCS application in PG&E's service territory.

Background

WESTCARB is one of seven research partnerships co-funded by the U.S. Department of Energy (DOE) to characterize regional carbon sequestration opportunities and conduct technology validation field tests. The California Energy Commission manages the WESTCARB partnership and, with DOE, is a principal funder of its work. The RFP will cover the first phase (engineering & economic assessment) of a two-phase project to assess and demonstrate the suitability of California utility-scale NGCC plants and oilfield natural gas cogeneration/steam flood units for CCS retrofit, and to assess the application of CCS on new NGCC units. Pacific Gas & Electric Company (PG&E) and the California Energy Commission would be primary Phase I partners. The Phase I assessment would develop and apply a methodology to identify units in PG&E's service territory that might be suited for CCS retrofit (based on screening-level site-specific criteria) and, for one or more of these units, would perform a site-specific feasibility study of the most practical option for CO₂ capture and secure long-term storage in a deep geological formation.

Pending a positive outcome of Phase I, and support for a field pilot test ("Phase II") from a California power generator (or in the case of a cogen/steam flood unit, an oilfield operator), and the California Public Utilities Commission, follow-on work would demonstrate integral power and steam generation, CO₂ capture, compression, and injection for enhanced oil recovery or sequestration in a depleted hydrocarbon reservoir or saline aquifer at pre-commercial scale. Determination of technology selection, project scale, and CO₂ disposition for a Phase II demonstration would be a task in the Phase I assessment; however, Phase II detailed design, procurement, and fieldwork is not part of this effort.

Additional Information

This solicitation and all supporting documents and forms for this RFP will be posted at www.energy.ca.gov/contracts/index.html under "Current Solicitations" in the February/March 2010 timeframe. Interested parties may register on the electronic mailing list on this webpage to receive notifications of the solicitation and any changes that later occur.

For those parties without internet access, copies of solicitation documents and information can be obtained by contacting:

Ms. Elizabeth Keller
Energy Systems Research Office
California Energy Commission
1516 Ninth Street, MS-43
Sacramento, CA 95814
Telephone: (916) 651-2071
Email: ekeller@energy.state.ca.us

In addition, you may request to be added to the mailing notification list to receive changes made to this solicitation.

Public Participation

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this forum, please contact the Public Adviser's Office at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at [PublicAdviser@energy.state.ca.us]. If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at [mediaoffice@energy.state.ca.us].

For technical questions on the subject matter, please contact Elizabeth Keller at (916) 651-2071 or [ekeller@energy.state.ca.us]

Participation through WebEx, the Energy Commission's on-line meeting service

Computer Logon with a Direct Phone Number:

- Please go to <https://energy.webex.com> and enter the unique meeting number 922 822 731
- When prompted, enter your information and the following meeting password [meeting@1](#)
- After you login, a prompt will appear on-screen for you to provide your phone number. In the Number box, type your area code and phone number and click OK to receive a call back on your phone for the audio of the meeting. International callers can use the "Country/Region" button to help make their connection.

Computer Logon for Callers with an Extension Phone Number, etc.:

- Please go to <https://energy.webex.com> and enter the unique meeting number 922 822 731
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- After you login, a prompt will ask for your phone number. CLICK CANCEL.
- Instead call 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted, enter the meeting number above and your unique Attendee ID number which is listed in the top left area of your screen after you login. International callers can dial in using the "Show all global call-in numbers" link (also in the top left area).

Telephone Only (No Computer Access):

Call 1-866-469-3239 (toll-free in the U.S. and Canada) and when prompted enter the unique meeting number above. International callers can select their number from <https://energy.webex.com/energy/globalcallin.php>

If you have difficulty joining the meeting, please call the WebEx Technical Support number at 1-866-229-3239. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded.

Note: California Energy Commission's formal name is State Energy Resources Conservation and Development Commission.